

FIG. 1

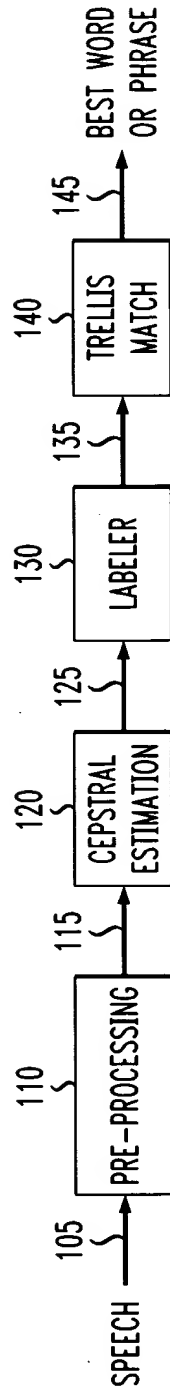


FIG. 2

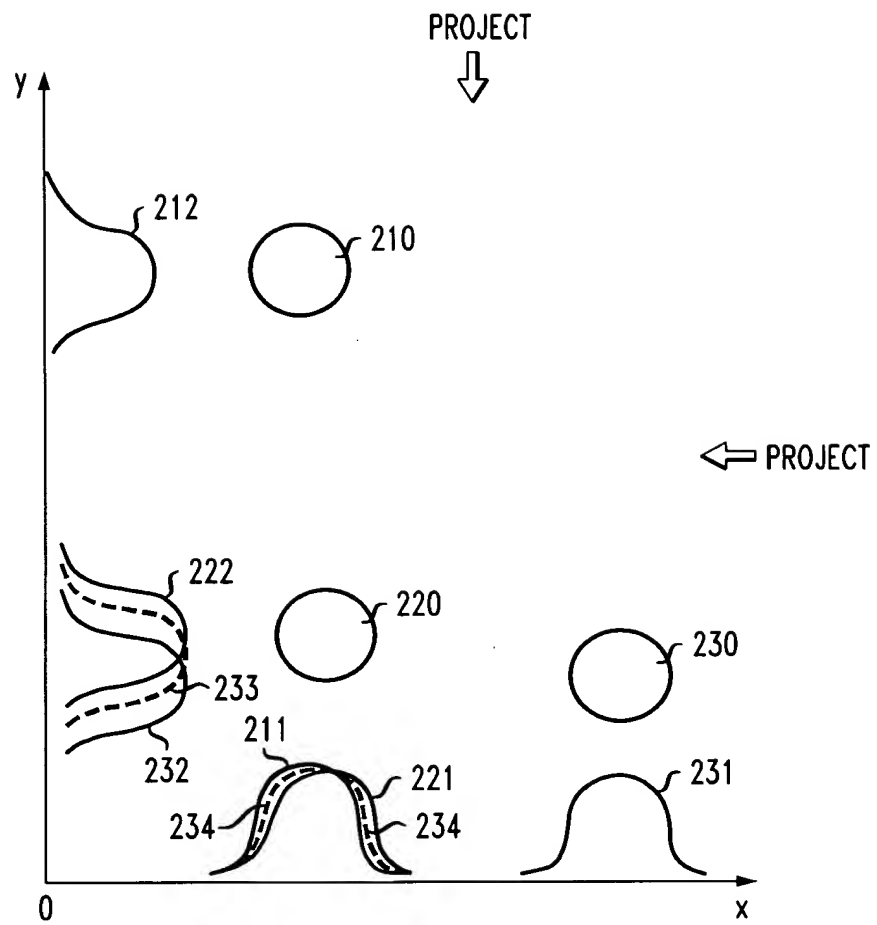


FIG. 3

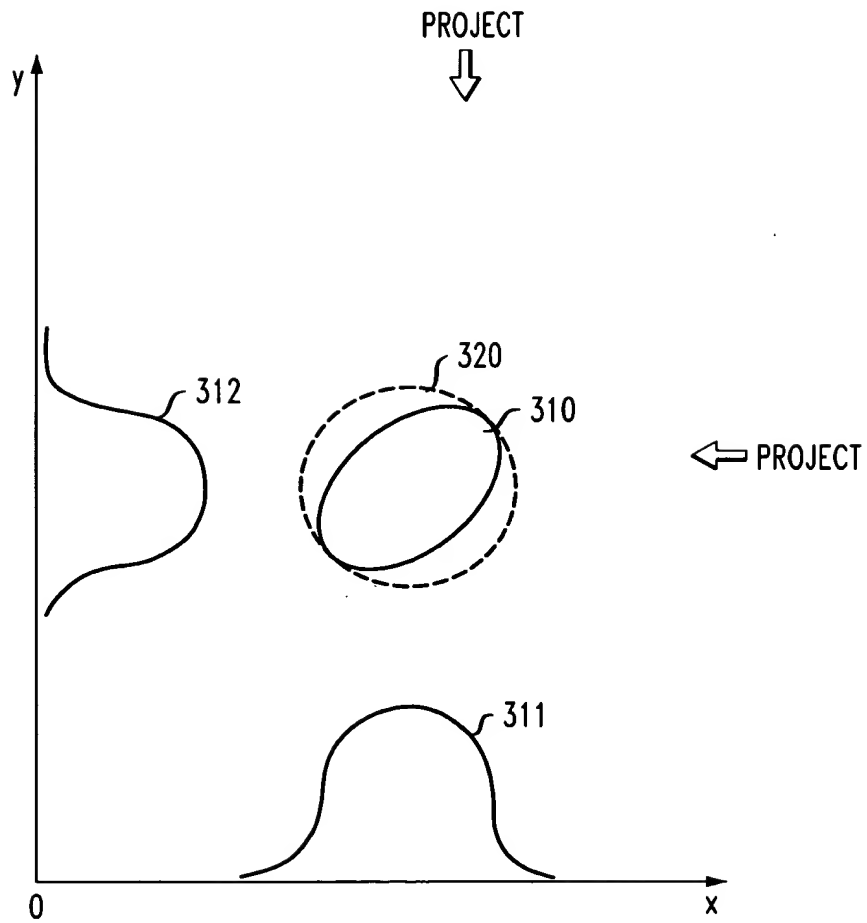


FIG. 4

400									
410									
g1	g2	g3	g4	g5	g6	g7	g8	420	
1	1	0	0	1	1	1	0	a0(v)	a1(v)
0	1	1	0	1	1	1	1	-0.01	2.11
1	1	0	1	0	1	1	1	5.12	-1.02
0	1	1	0	1	0	1	0	3.70	1.44
0	0	1	1	0	0	1	0	-1.20	0.37
0	0	1	1	0	0	1	0	2.28	1.00
1	1	1	0	1	1	1	0	-1.36	0.87
0	1	1	1	1	1	1	1	-0.78	1.73
1	0	0	1	1	1	0	1	3.25	2.61
0	1	0	1	1	0	0	0	-0.94	6.20
0	0	0	1	1	1	0	0	3.40	-7.31
430									
14.91	20.63	12.35	8.22	11.54	0.57	12.21	6.93		

FIG. 5

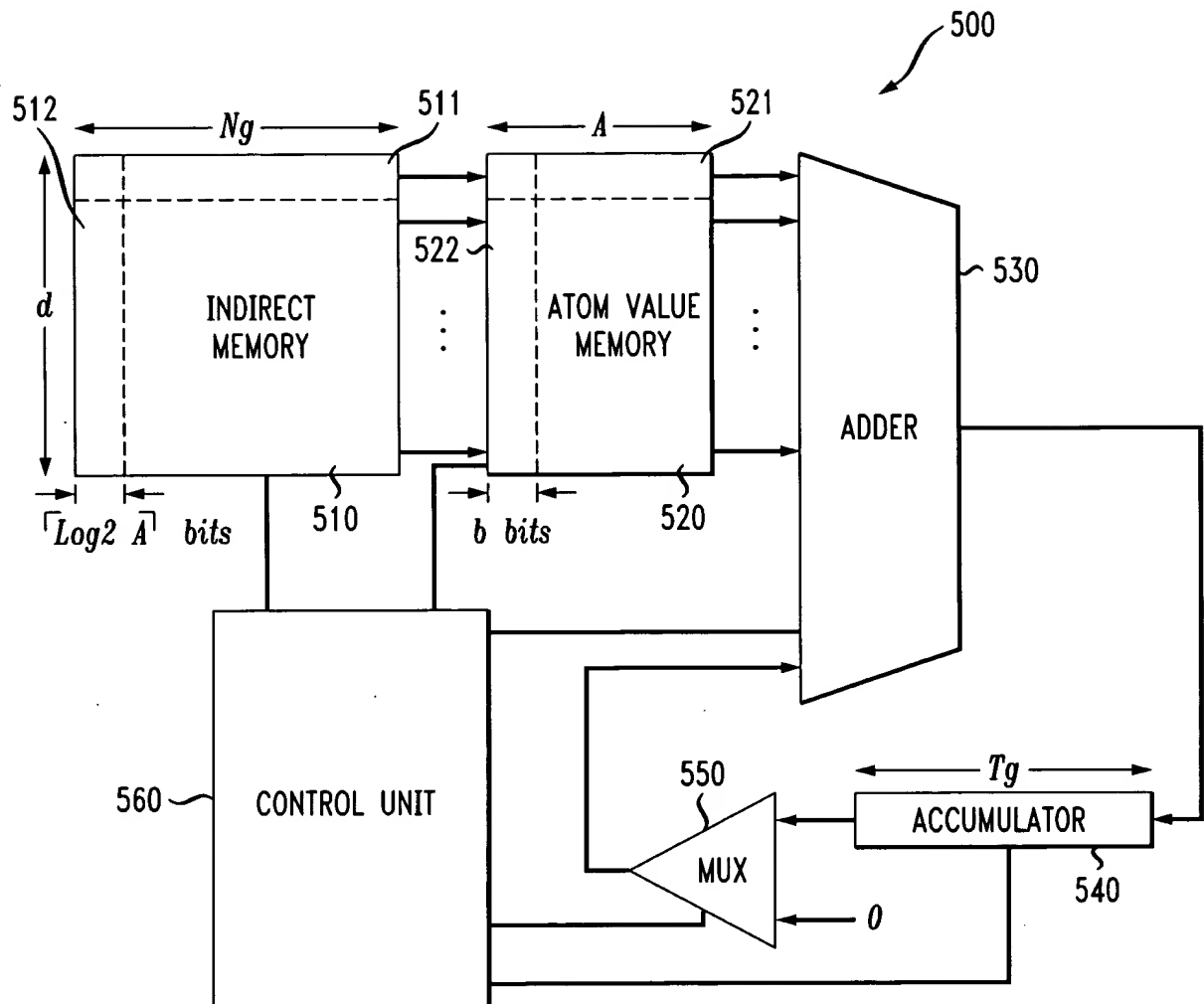


FIG. 6

EXPRESSION	MEANING	TYPICAL
A	ATOMS PER DIMENSION	64
b	BITS TO REPRESENT AN ATOM VALUE	32
d	DIMENSIONS IN THE MODEL	40
$r = \lceil \log_2 A \rceil$	BITS TO RECORD AN ATOM INDEX	6
N_g	GAUSSIANS PROCESSED PER INDIRECT MEMORY LOAD	32
T_g	TOTAL GAUSSIANS ACCUMULATED	640

FIG. 7

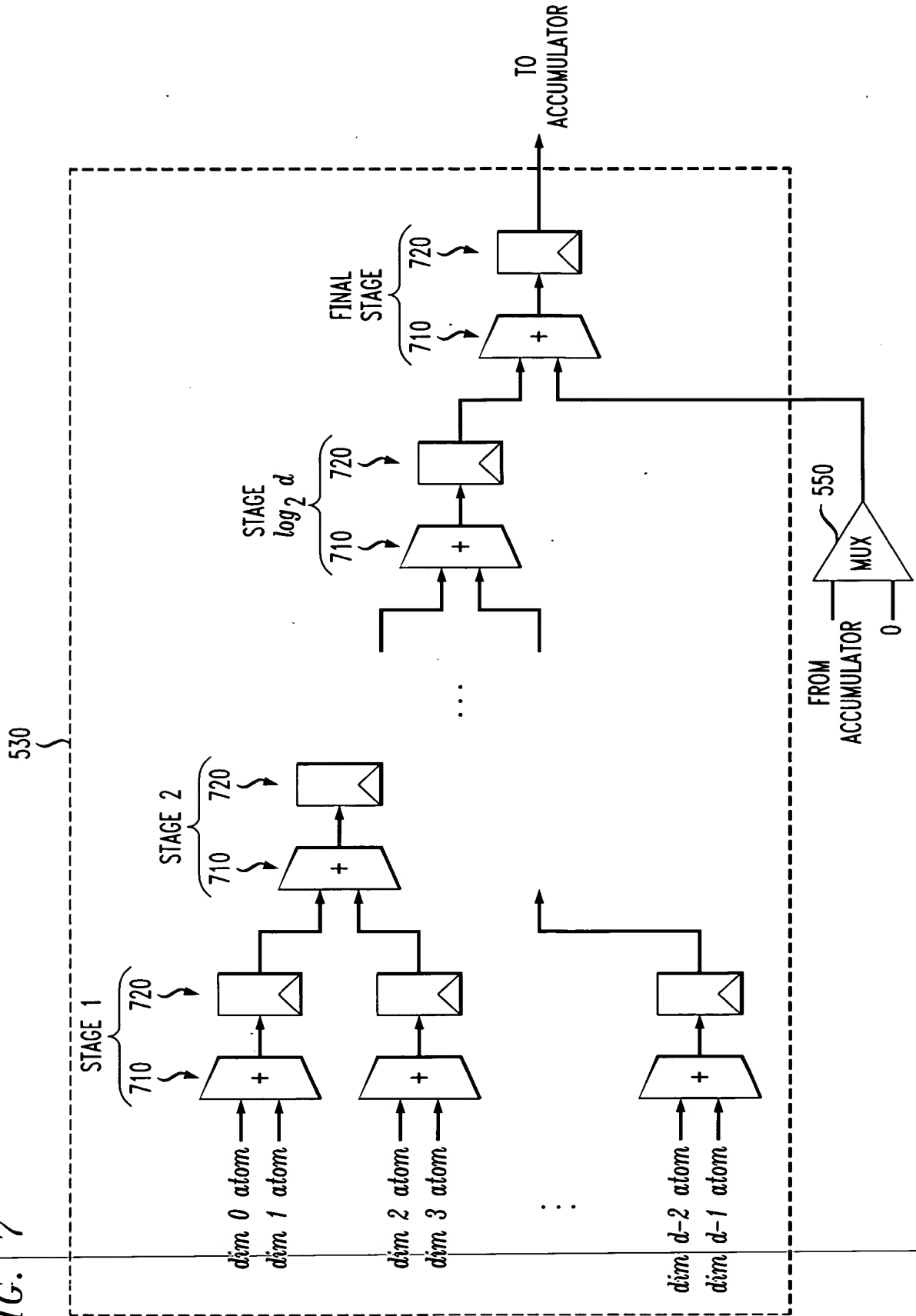


FIG. 8
800

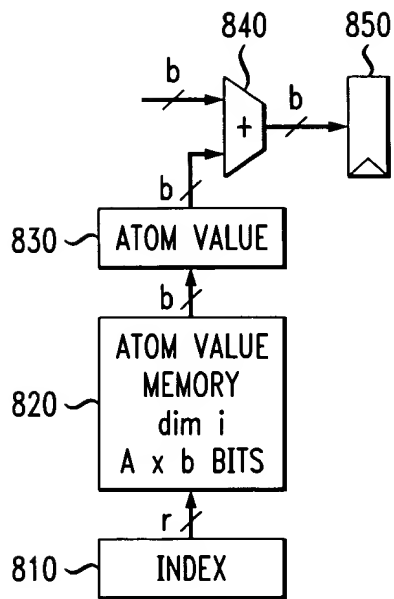


FIG. 9

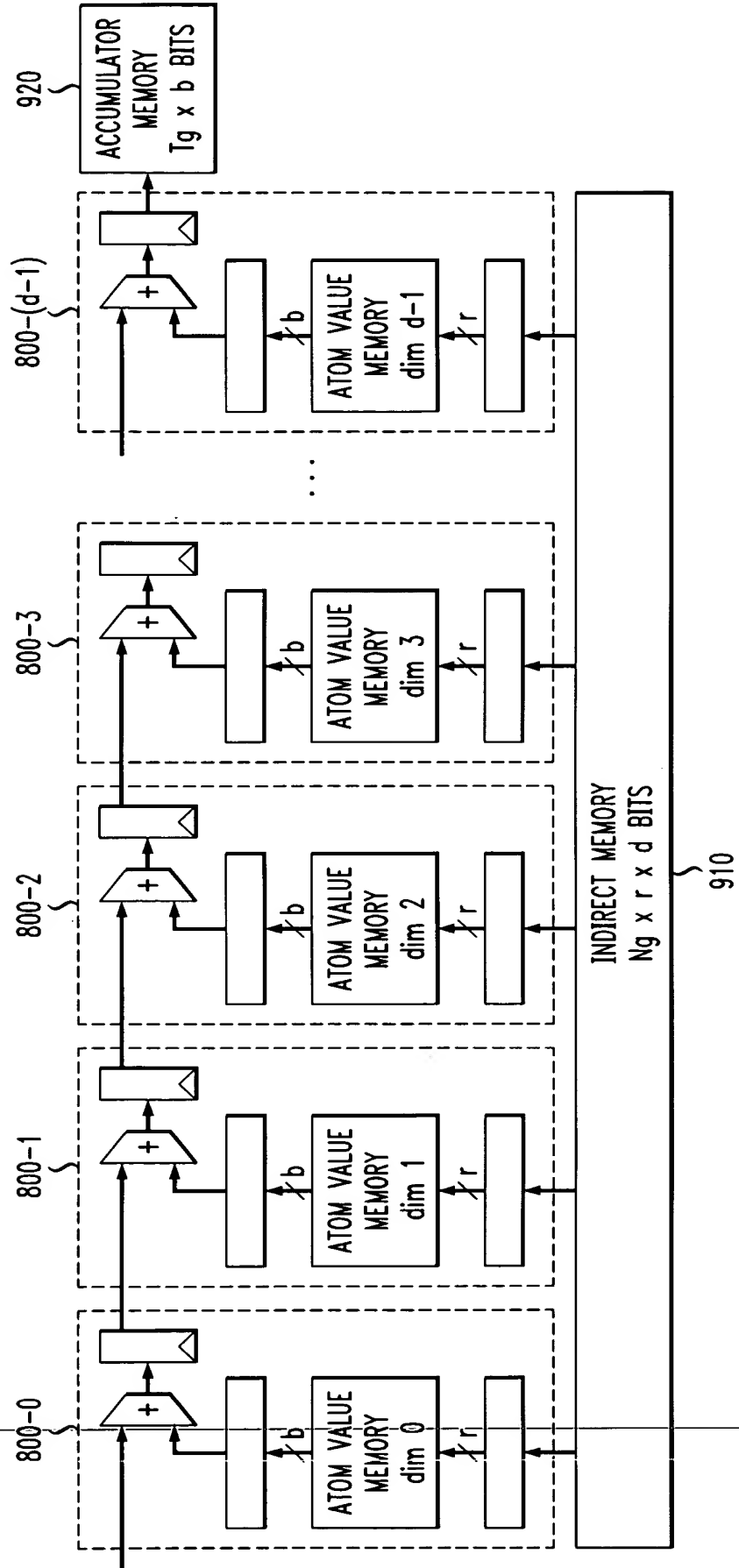


FIG. 10

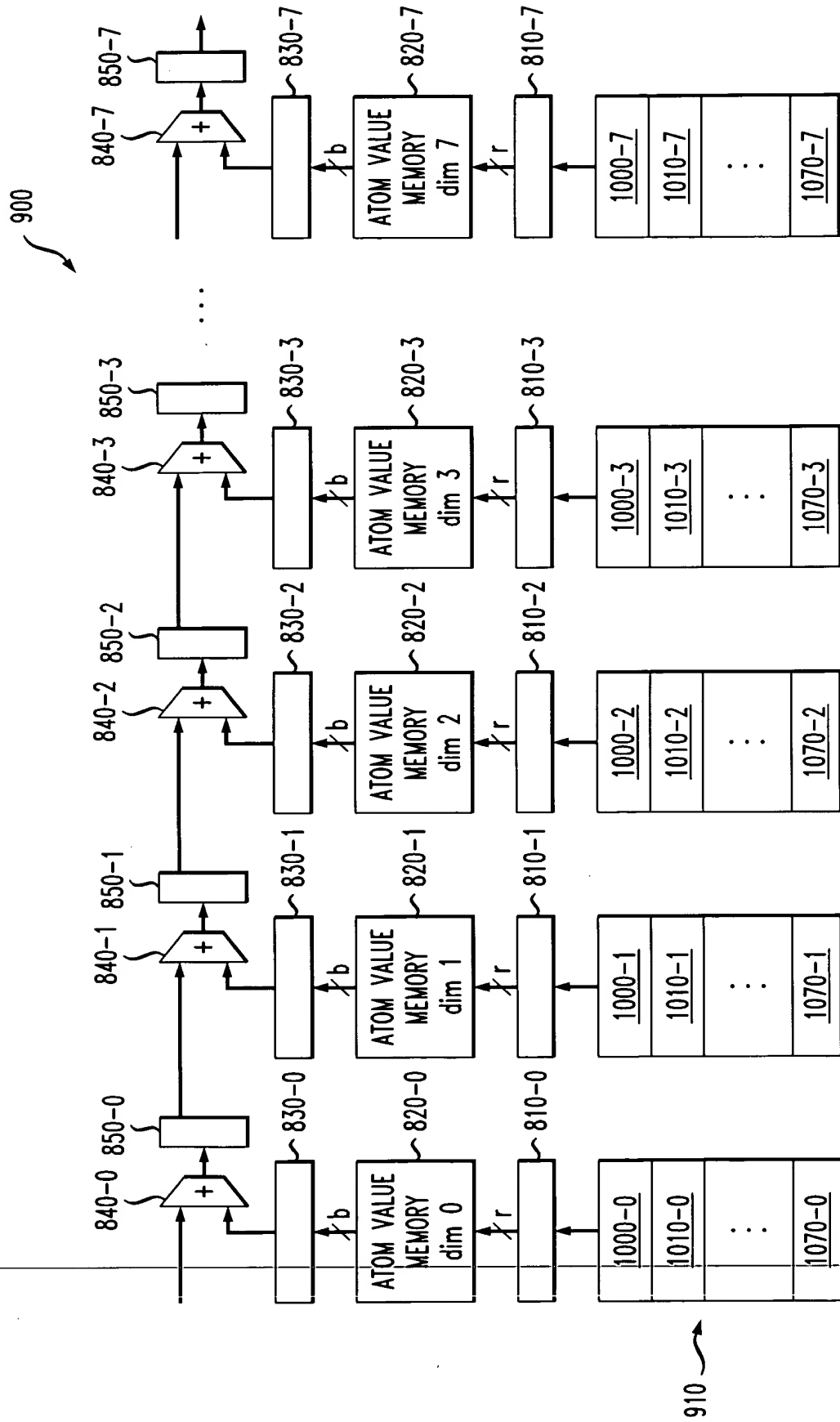


FIG. 11

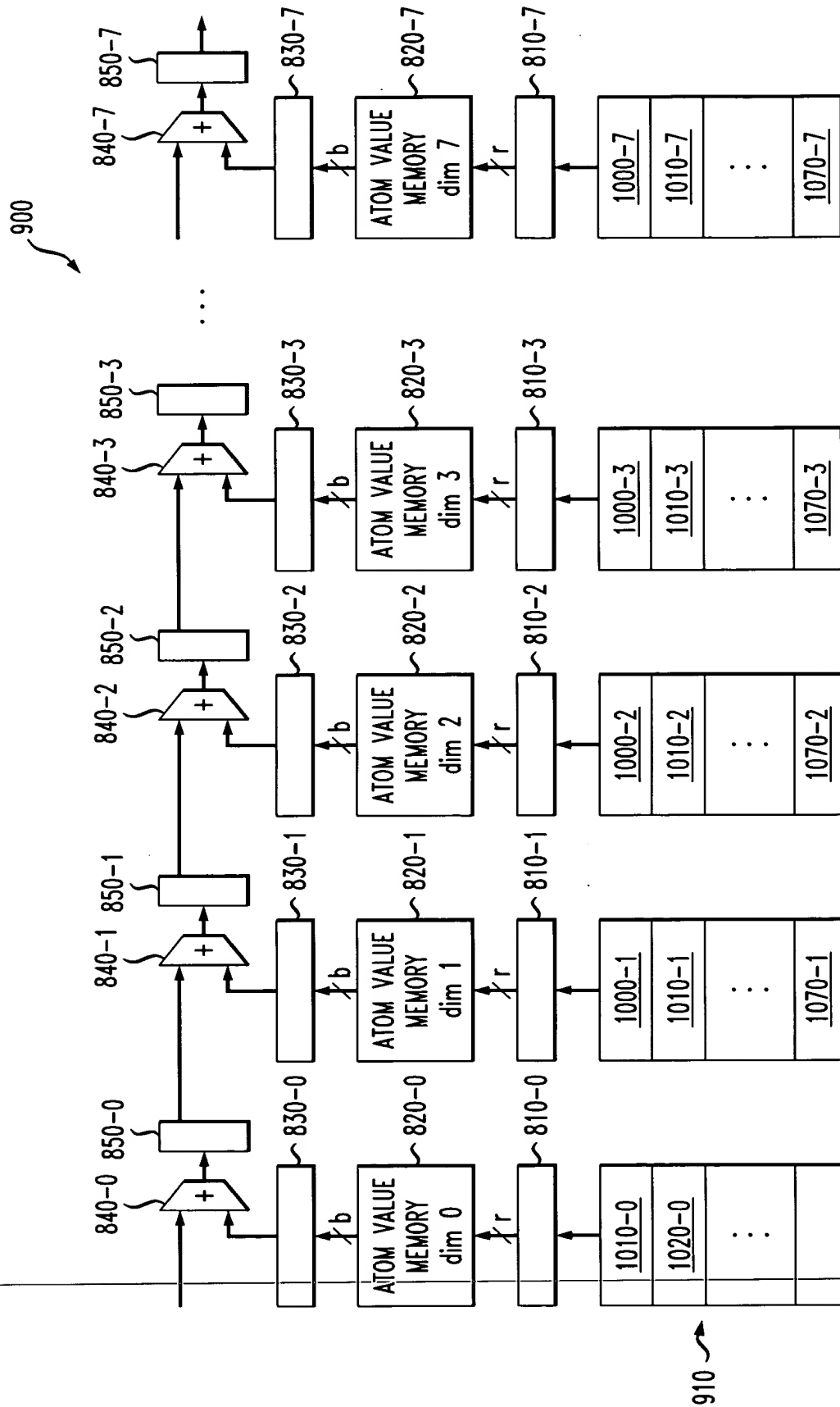


FIG. 13

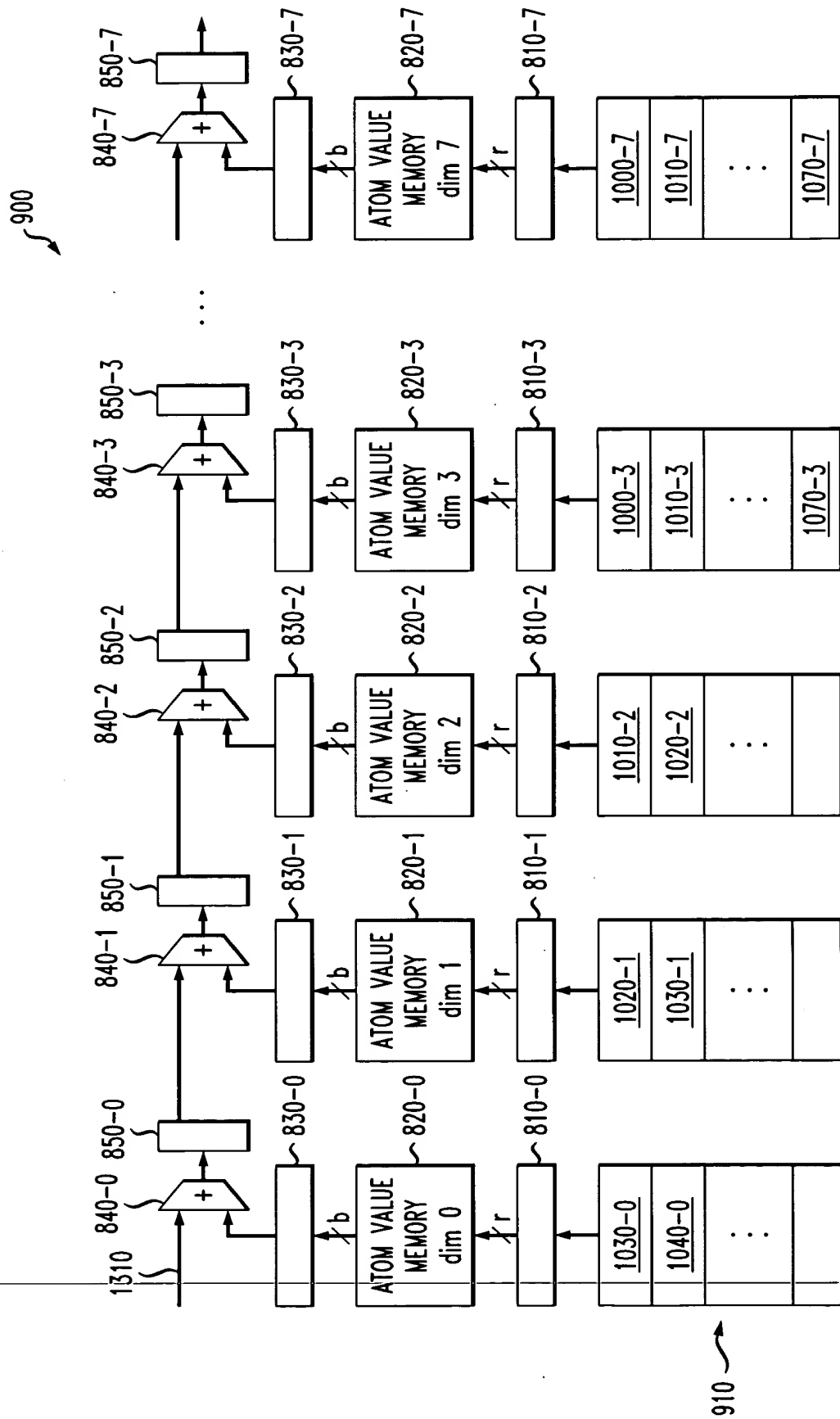


FIG. 14

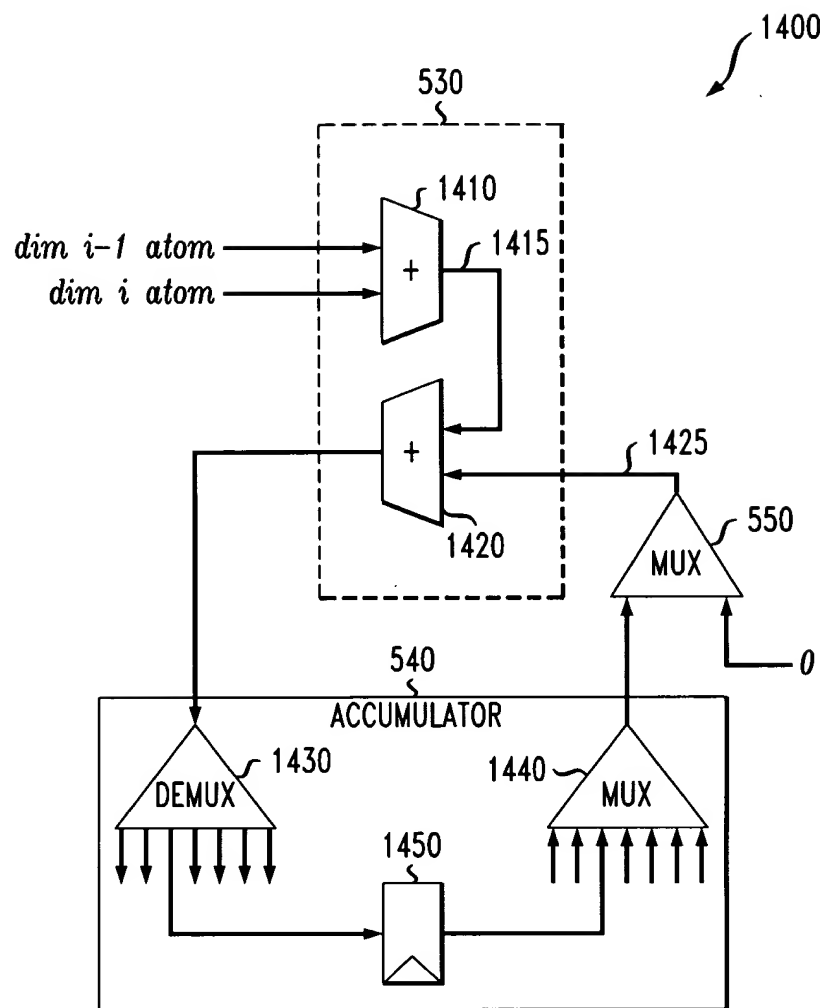


FIG. 15

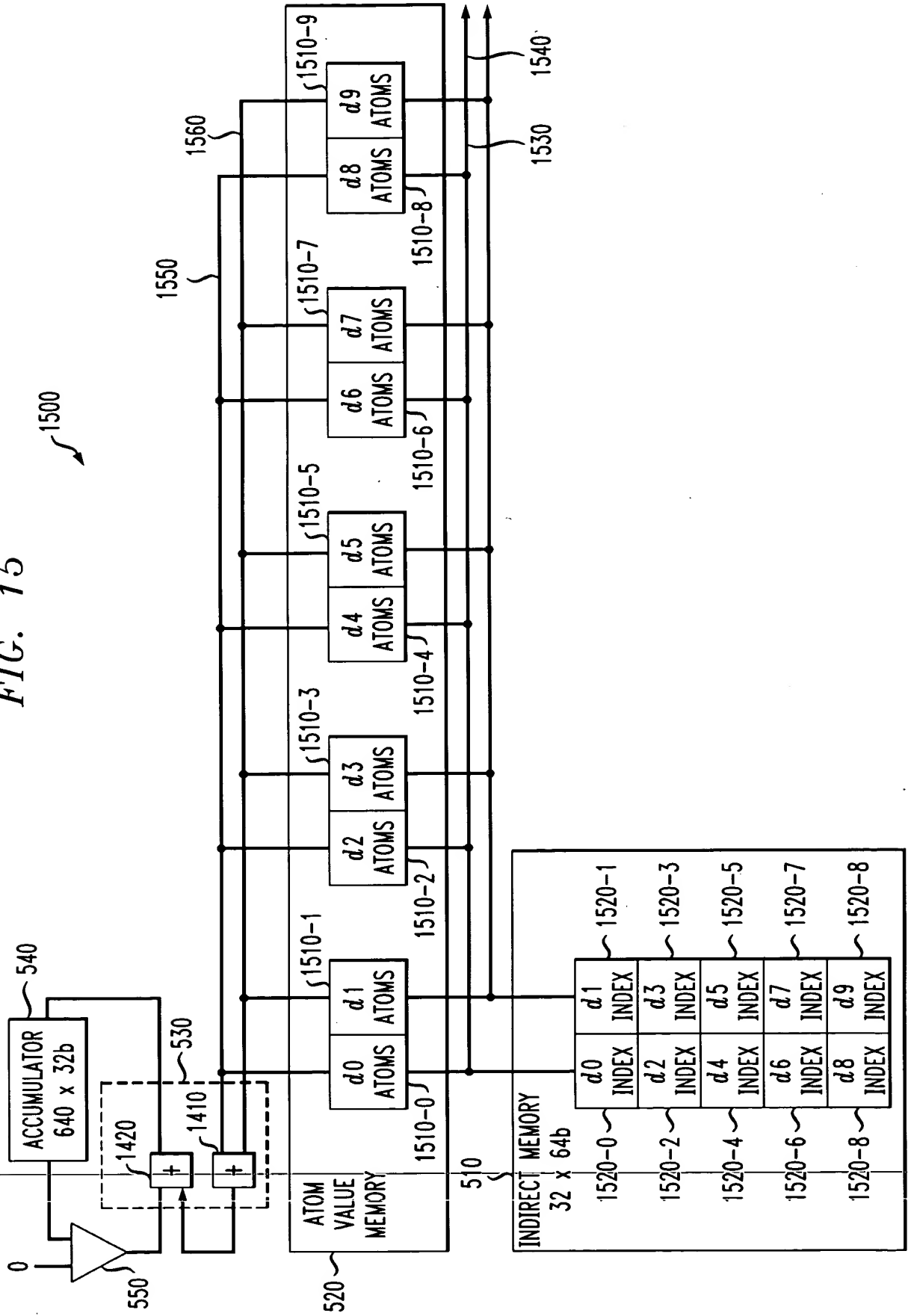


FIG. 16

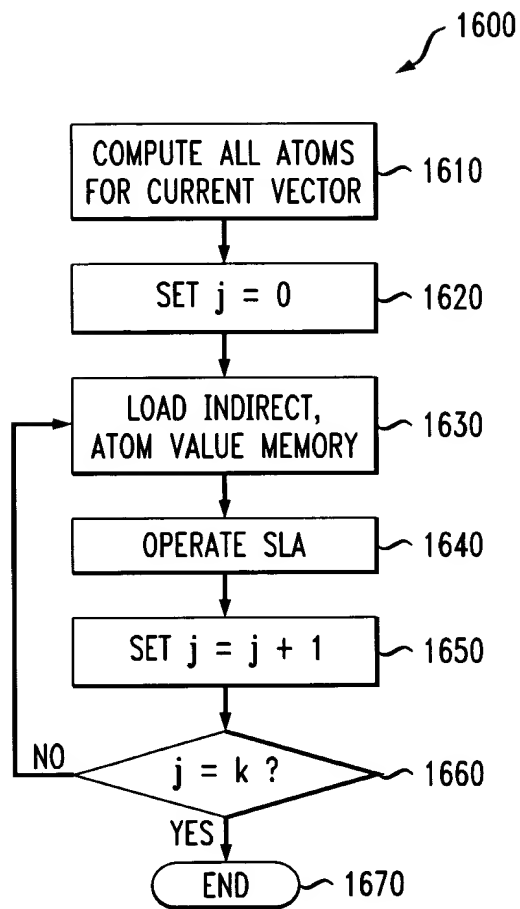


FIG. 17

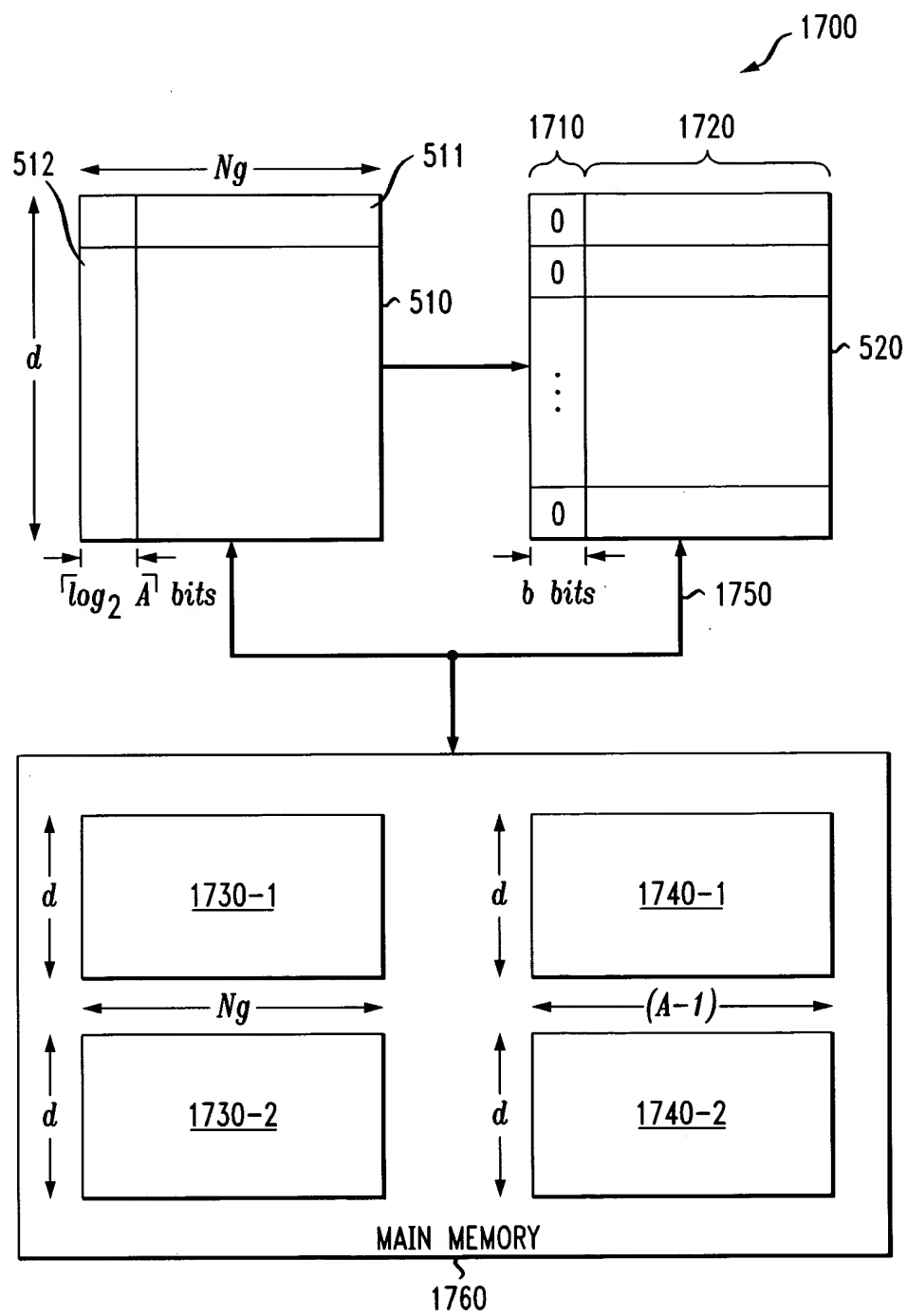


FIG. 18

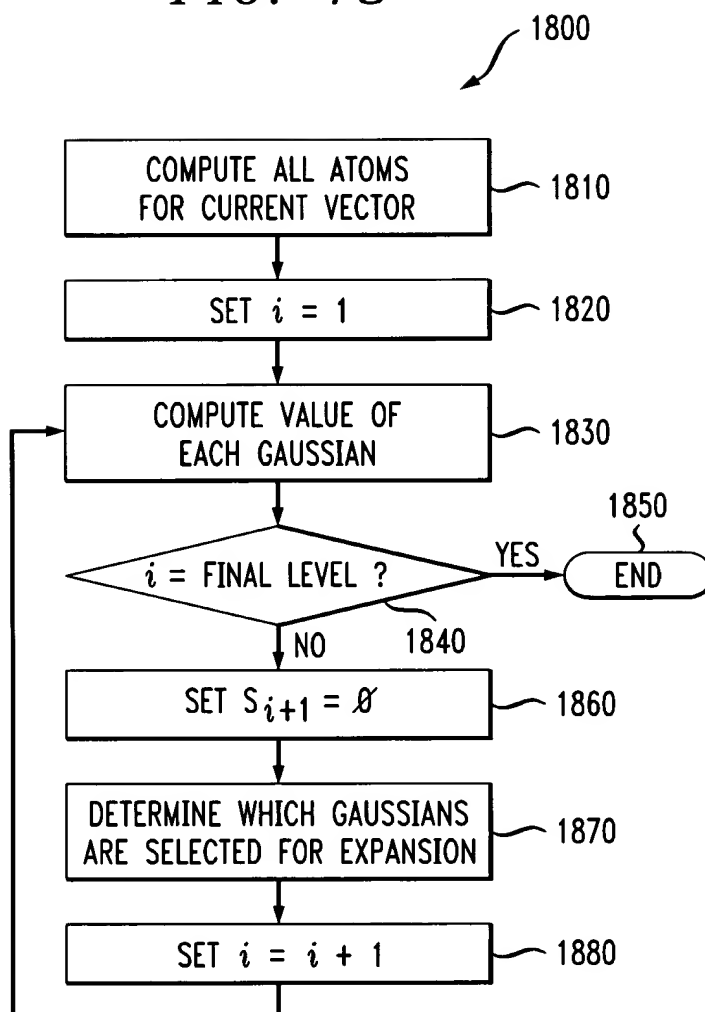


FIG. 19

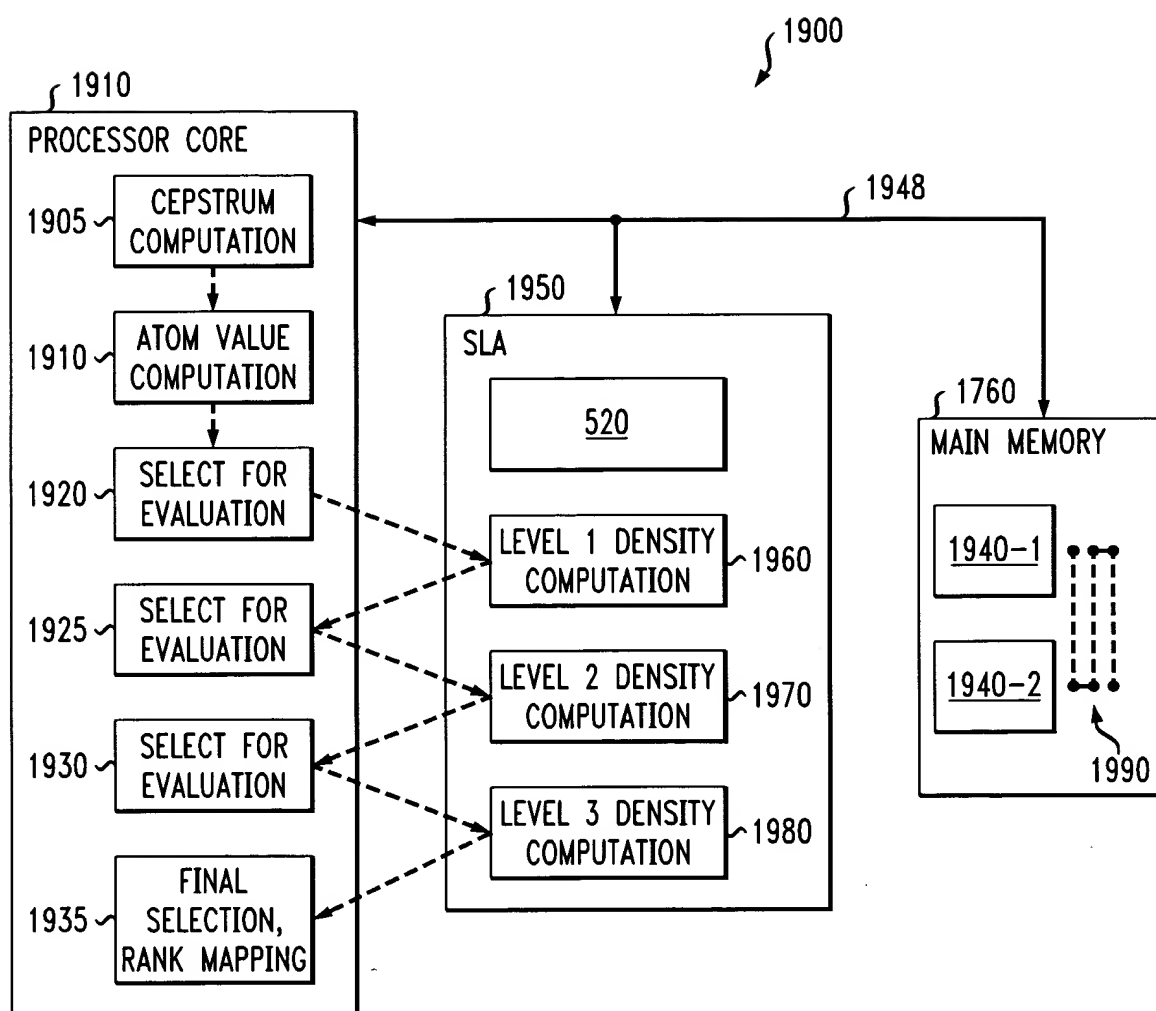


FIG. 20

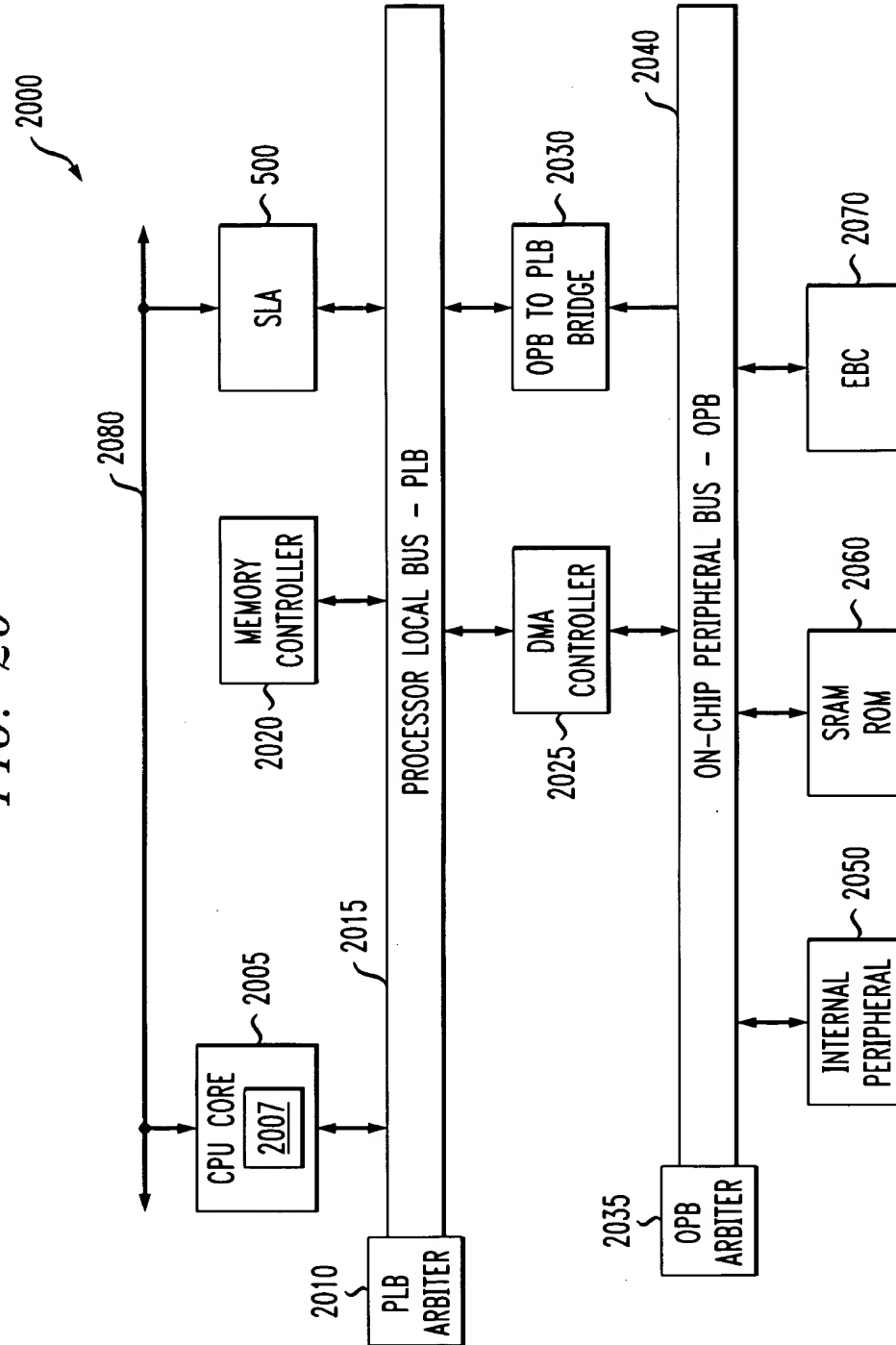


FIG. 21

EXPRESSION	MEANING	TYPICAL
A	ATOMS PER DIMENSION	64
b	BITS TO REPRESENT AN ATOM VALUE	32
d	HARDWARE DIMENSIONS IN MODEL	10
$D = kd$	TRUE DIMENSIONS IN MODEL	40
H	LEVELS OF HIERARCHY	3

FIG. 22

EXPRESSION	MEANING	TYPICAL
$r = \lceil \log_2 A \rceil$	BITS TO RECORD AN ATOM INDEX	6
d	HARDWARE DIMENSIONS IN MODEL	10
$D = kd$	TRUE DIMENSIONS IN MODEL	40
G	GAUSSIANS COMPUTED PER FRAME	$1152 = 128 \times (1 + 3 + 5)$

FIG. 23

EXPRESSION	MEANING	TYPICAL
b	BITS TO REPRESENT AN ATOM VALUE	32
G	GAUSSIANS COMPUTED PER FRAME	$1152 = 128 \times (1 + 3 + 5)$

FIG. 24

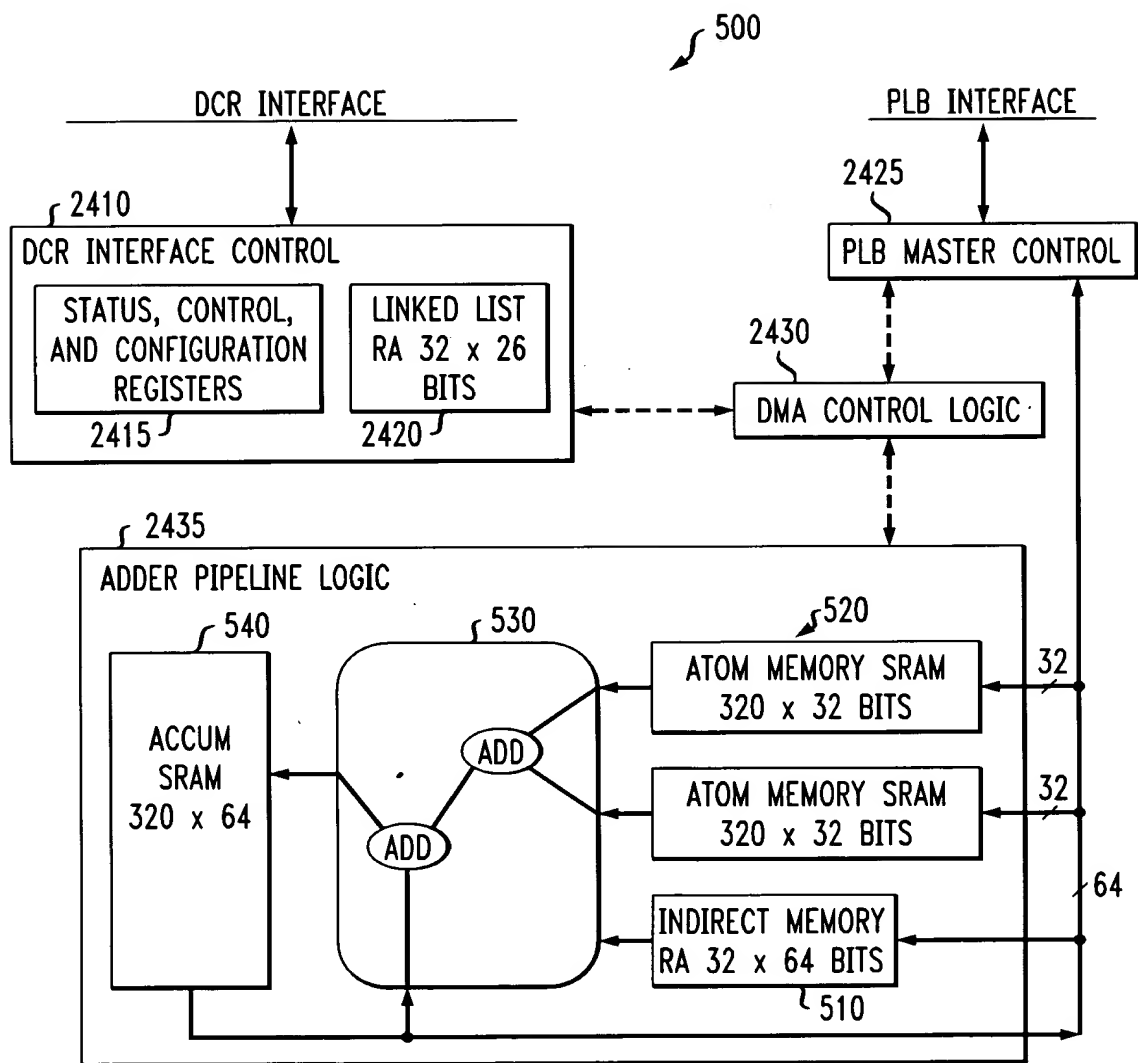


FIG. 25

